AMENDMENTS TO THE SPECIFICATION

On page 36, lines 22-29, please replace the paragraph beginning on line 22 and ending on line 29 with the following amended paragraph:

The sequence for Kv3.4a is in Gene Bank under accession number X62841 (SEQ ID NO:6; gtgcgcttct ctgtctttct ggggttgggg ggggcgtgtc cccggcccgg agcatccttg tgcttgcctc aaccttctga gaccccggac cccttggatt gagtcctcga ccctggtctt cacctcctgc ctcccctagg ttcttcctgc caaatcccaa ccacctgtgc accacaaaaa gccaactctt cctgctccga gccccggggg ggtggggtgg gggggaggca ggggcagagc cactctgcag aaggggccgc caccacctcc tgcctcctcc tcctccacca cctcctcctc cttctcgtct cctccccctc cccgttctga cgctgcctcc ttgggaaggg tgtttggagg gcagcggccg ccccaagccg gagccccgca gcgcttctta tgatcagctc ggtgtgtgtc tcctcctacc gcgggcgcaa gtcggggaac aagcctccgt ccaaaacatg tctgaaggag gagatggcca agggcgaggc gtcggagaag atcatcatca acgtgggcgg cacgcgacat gagacctacc gcagcaccct gcgcacccta ccgggcaccc gccttgcctg gctggcggat cccgacggcg ggggtcggcc agagtcggat ggcggcggtg caggcagcag cggcagcagc ggcggcggcg ggggctgtga gttcttcttt gatcggcacc cgggtgtttt tgcctatgtg ctcaactact accgcacggg caagctgcat tgccccgcag acgtctgtgg gcctctcttt gaggaagagc tcactttctg gggtatcgat gagacagatg tggaaccctg ctgctggatg acctaccggc agcaccgcga tgctgaagag gcactggaca tcttcgagag cccggacggg ggcgggggtg gcgcagggcc cggcgacgag gctggagacg atgagcggga gttggccttg cagcgcctgg gccccatga aggaggctct ggccctggtg ctgggtccgg gggttgccgt ggctggcagc cccgaatgtg ggcgctcttc gaggacccgt actcatcccg ggcggccagg gtggtagcct ttgcctctct cttcttcatc ttggtctcca ttaccacctt ctgcctggag acccacgagg ccttcaacat tgaccgaaat gtgacggaga tccaccgggt agggaatatc accagcgtgc gcttccggcg ggaggtagaa acagaaccca ttcttaccta catcgagggc gtgtgcgtga tgtggttcac tctagagttc ctggttcgca ttgtgtgctg ccctgatacg ttggactttg tcaagaacct gctcaacatc atcgactttg tggccatctt gccctttttac ctggaggtgg gattgagtgg cctgtcatcc aaggcagctc gagatgtgct gggtttcctg cgtgtggtgc gctttgtacg catcctgcgg atcttcaagc tcacacgcca ctttgtgggg ctgcgtgtgc tcggccacac actccgggcc agcaccaacg agttcctgct gcttatcatc ttcctggccc tgggtgtgct catctttgcc accatgatct attatgctga gcgaatcggg gccaggccat ctgacccacg gggcaatgac cacaccgact tcaagaacat ccccatcggt ttctggtggg ctgtggtcac catgacaacg cttggctatg gggacatgta tcctaagaca tggtcaggaa tgctggtggg tgcgctgtgt gcactggctg gtgtgctaac cattgccatg cctgtgcctg tcatcgtcaa taactttggt atgtactact ccctggctat ggccaagcag aagcttccca agaaacgaaa gaagcatgta ccacggccac cccagcttga gtcacccatt tactgcaagt ctgaggagac ttcaccccgg gacagcacct acagtgacac cagccccccc gcccgggaag agggtatggt cgagaggaaa cgagcagact ccaagcagaa tggtgacgct aatgcggtgc tgtccgatga ggagggagct ggcctcaccc agcccctggc ctcggccccc acccctgaag agcgtcgagc cctgagacgc tcaggcacac

gggacagaaa caagaaggca gctgcctgct tcctgctcag tgctggggac tatgcctgtg ctgatggcag tgtccagaaa gaaggcagtg ttgagccgaa agcgtgcgtc ccagtgtctc acacctgtgc tctttaaaca cagagacctg ccaagacgcc ctctcgtcca actatgccca tgctgaagtc ctcaccctct cttagagcgg caccaacgtg agaaagacag acagacagaa agccagaggc ttaggaaaac tctggaaccc aggcacgaat cttttgctgg gaaagatatc cttgtttgca caagactggt ggaaaaatct cccatgcaac tctcagggcc cagagccatc tgggtctgat actctgttct actgtacatt gaagagacat atatgcacat atagtatcta tattcataca tactatatac tcttgtgtgt agtgcacgtg ctactggtgg tctgtcttca tcgttaggct atgtctccca agtcctctgc ccaccctgtt tccccacccc ctcttccttc atggattgtt tcttctgacc atgtttttgg agtgtcccag gagaggtata cctgggacct gcccctccag ctgggtggtc ccaggctgct ctcacttggg ggtgtccccc gccagcaggt ggcctgctga agtcagttga aggcacgatt gcccttctgg ggtcactgct tcactagc). The sequence for Kv3.4c is identical to the Kv3.4a sequence except that 62 bp (position 2222-2283) of Kv3.4a are absent in Kv3.4c. As a result of this alternative splicing, the first 608 amino acids of both variants are identical, but the last 17 (for variant a) and 19 (for variant c) amino acids are completely different. Both variants are described by Rudy and colleagues in Veaga-Saenz de Miera E. et al. (1993) Shaw-related K channels in mammals. in Handbook of Membrane Channels: Molecular and Cellular Physiology. (Peracchia C, ed. Academic Press, Orlando) pp 41-78.